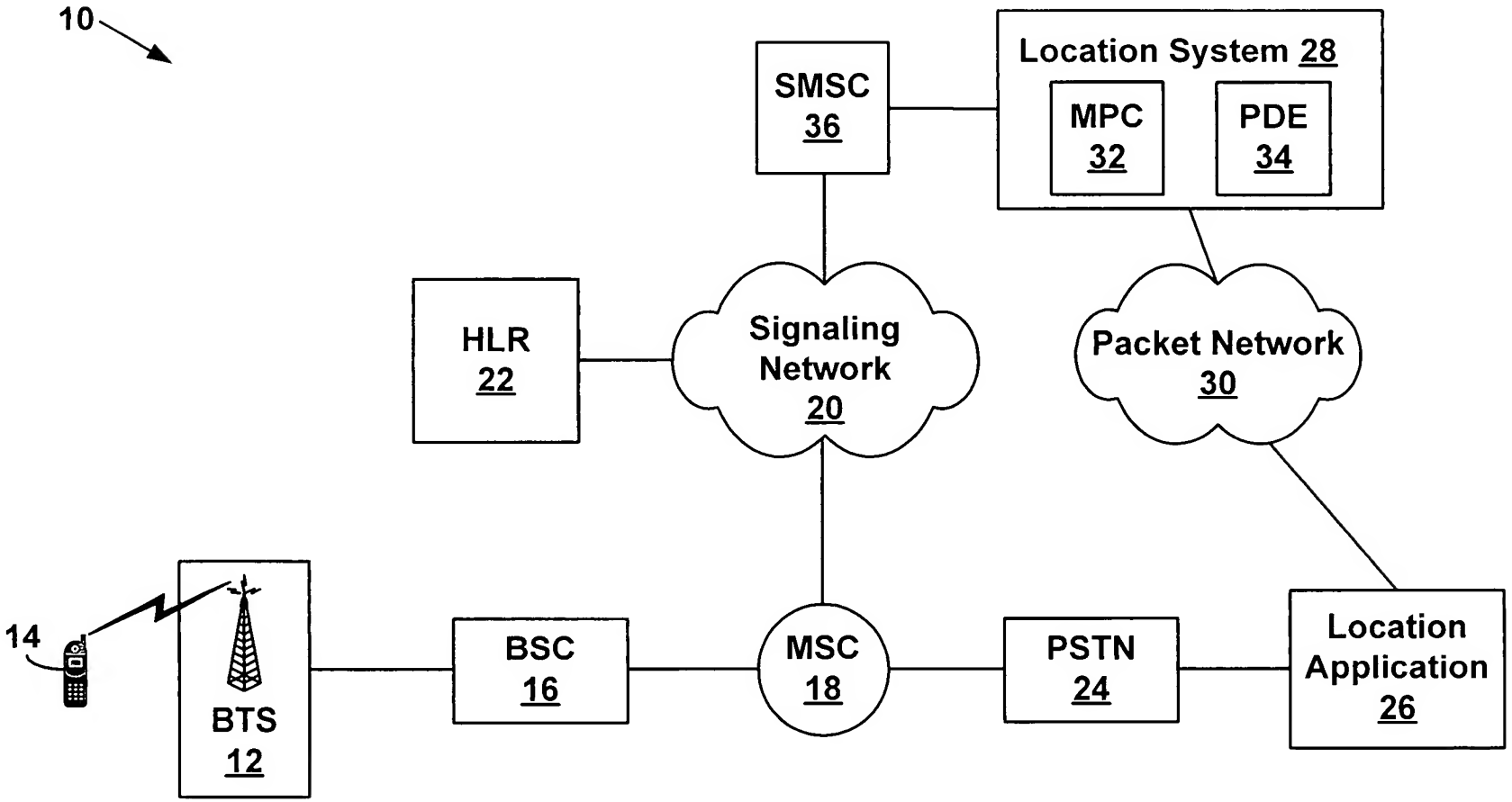
10
SMSC
36
Location System 28
MPC
32
PDE
34
HLR
22
Signaling
Network
20
Packet Network
30
14
BTS
12
BSC
16
MSC
18
PSTN
24
Location
Application
26

FIGURE 1

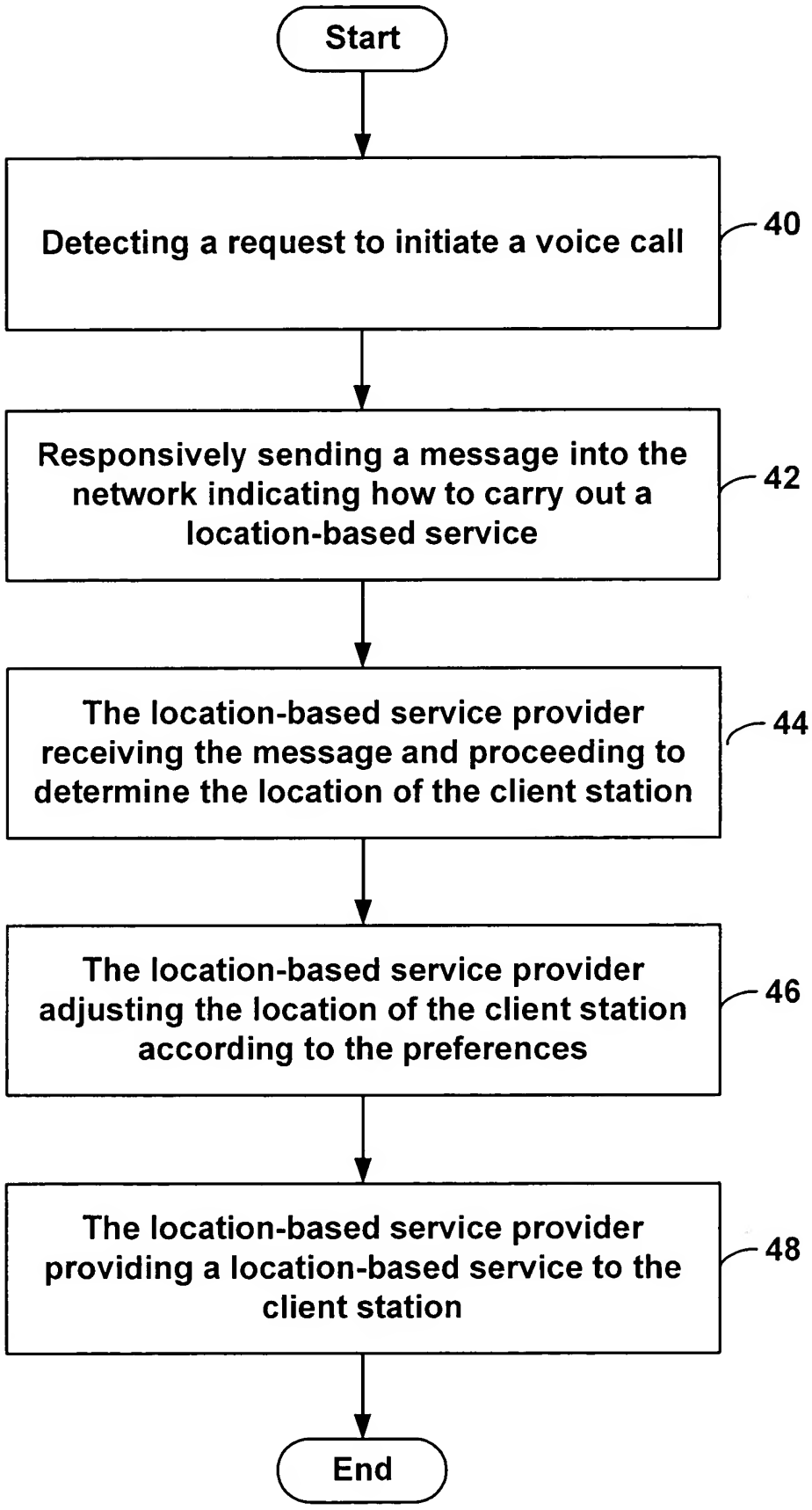
Start
Detecting a request to initiate a voice call
40
Responsively sending a message into the network indicating how to carry out a location-based service
42
The location-based service provider receiving the message and proceeding to determine the location of the client station
44
The location-based service provider adjusting the location of the client station according to the preferences
46
The location-based service provider providing a location-based service to the client station
48
End

FIGURE 2

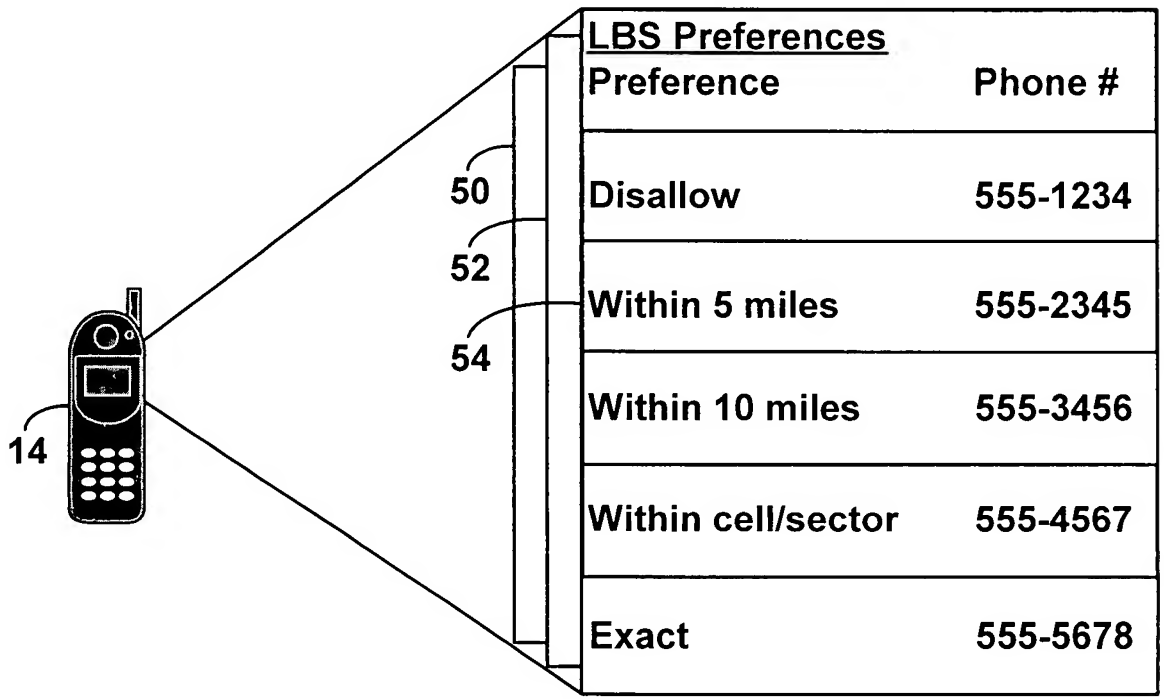
LBS Preferences
Preference
Phone #
50
Disallow
555-1234
52
Within 5 miles
555-2345
54
Within 10 miles
555-3456
Within cell/sector
555-4567
Exact
555-5678
14

FIGURE 3

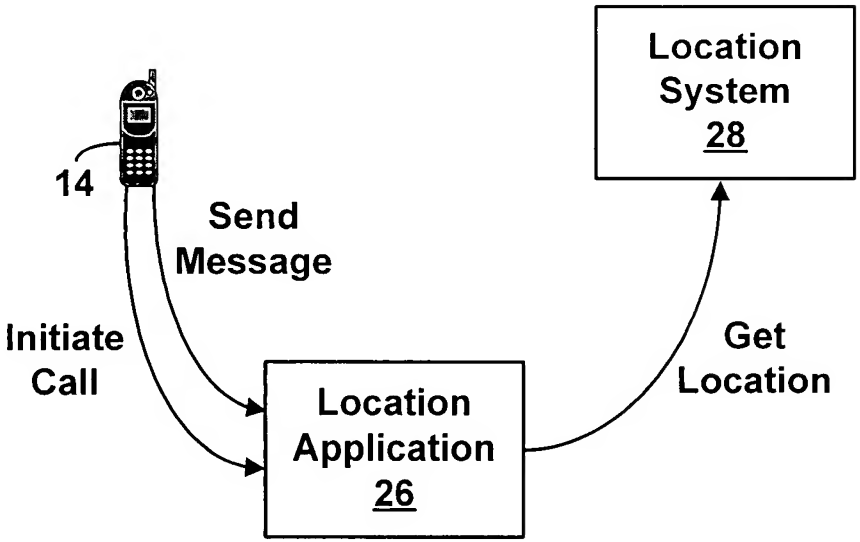

FIGURE 4A

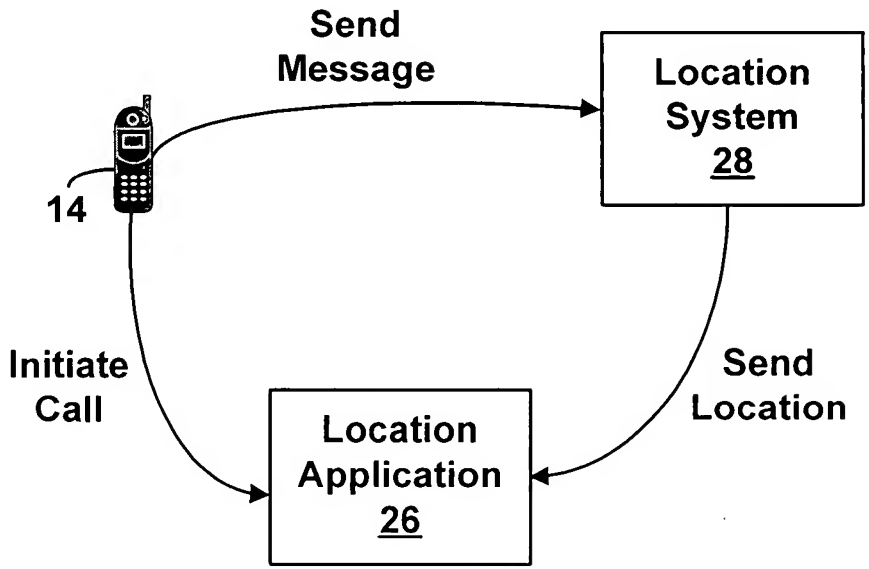

FIGURE 4B

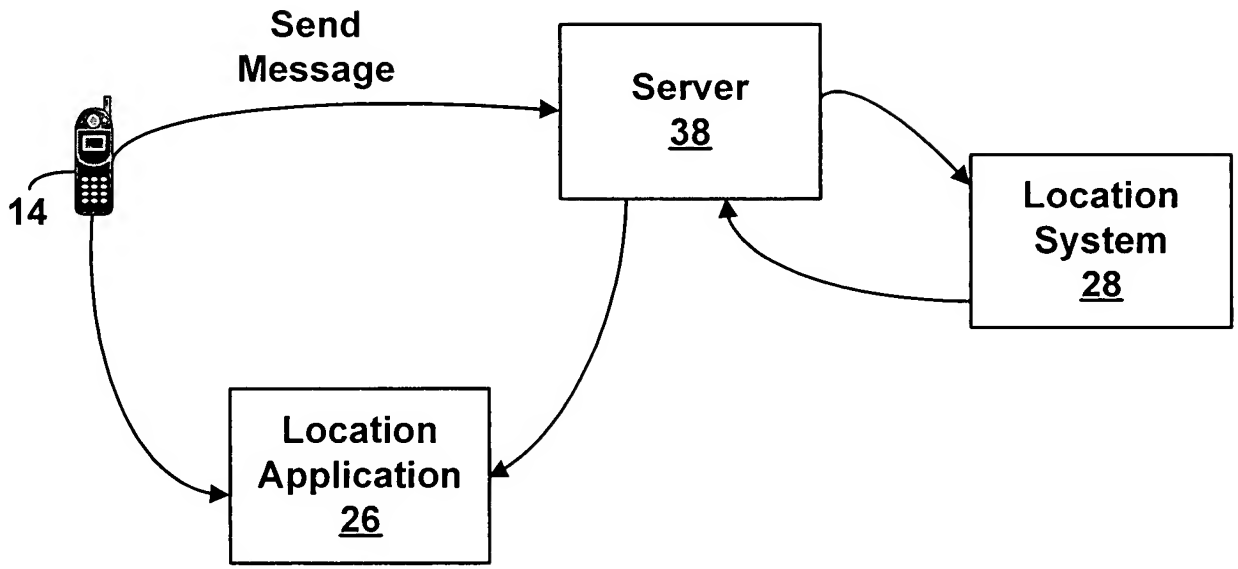
Send
Message
Server
38
Location
System
28
14
Location
Application
26

FIGURE 4C